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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/724,077	12/01/2003	Chandrakant D. Patel	200209496-1	1725	
22879	22879 7590 11/08/2005			EXAMINER	
	PACKARD COMPAI	DATSKOVSKIY, MICHAEL V			
	P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION			PAPER NUMBER	
FORT COLLI	FORT COLLINS, CO 80527-2400		2835	<del> </del>	

DATE MAILED: 11/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			DK L			
		Application No.	Applicant(s)			
		10/724,077	PATEL, CHANDRAKANT D.			
	Office Action Summary	Examiner	Art Unit			
		Michael V. Datskovskiy	2835			
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
WHIII - Extended after a	HORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donosions of time may be available under the provisions of 37 CFR 1.1 roll (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO (36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from (a) cause the application to become ABANDONI	N. imely filed  In the mailing date of this communication.  ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 01 D	<u> ecember 2003</u> .				
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	tion of Claims					
4)⊠	Claim(s) 1-39 is/are pending in the application.					
.,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[	Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1,4,5,7-9,14,15,17,18,21,24,27,30-32 and 34</u> is/are rejected.					
	☑ Claim(s) <u>2,3,6,10-13,16,19,20,22,23,25,26,28,29,33 and 35-39</u> is/are objected to.					
8)[	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	tion Papers					
9)[	The specification is objected to by the Examine	er.				
10)⊠	The drawing(s) filed on 01 December 2003 is/a	are: a)⊠ accepted or b)□ objec	cted to by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
. —	Replacement drawing sheet(s) including the correct					
11)[	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign )☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
	<ol> <li>Certified copies of the priority documents have been received.</li> </ol>					
	2. Certified copies of the priority document					
	3. Copies of the certified copies of the prio	·	red in this National Stage			
*	application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,	and .			
	See the attached detailed Office action for a list	or the centilled copies not receiv	eu.			
Attachme	nt(s)					
1) 🛛 Noti	ice of References Cited (PTO-892)	4) 🔲 Interview Summar				
2) Noti 3) Info	ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>12/01/2003</u> .	Paper No(s)/Mail [				

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 2. Claim 1 and depended claims 2-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 recites the limitation "the housing" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 4-5, 8-9, 14-15, 17-18, 24, 27, 30-32, 34 are rejected under 35
  U.S.C. 102(e) as being anticipated by Masuda et al (JP02003075081).
  Masuda et al teach a cooling system 4 for a display projector, Figs. 1-9, said display projector having a plurality of panels substantially enclosing a heat-generating component 5, said cooling system comprising: means 42, 43 for conducting heat from

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the heat –generating component 5 to at least one panel 47 of the housing 41; and means for dissipating heat the conducted heat, wherein the means for dissipating heat comprises at least one panel 47 of the display projector. Masuda et al teach furthermore: said cooling system further comprises means 42 for supporting the heat – generating component 5 on two side panels of the display projector, said means 42 is also for conducting heat; said system further comprising cooling fins 48 for increasing heat dissipation; said means for conducting heat further comprising means 43-45 for collecting heat conducted by the heat conducting member 42 and for conducted heat to the means 47 for dissipating heat, wherein said means for conducting heat further comprising a thermosiphon (a heat pipe) 400 containing a low boiling fluid, an evaporator section 45 connected to the heat generating component 5, a condenser section 45 thermally removably connected to the means47 for dissipating heat, and a wicking material. Regarding to the claim 34: The method steps are inherently necessitated by the device structure as Masuda et al teach it.

6. Claims 1, 4-5, 7-9, 18, 21, 34 are also rejected under 35 U.S.C. 102(e) as being anticipated by Wu et al.

Wu et al teach as a prior art: a cooling system for a display projector, Figs. 1-2 and col. 1, lines 20-63, said display projector having a plurality of panels substantially enclosing a heat-generating component, said cooling system comprising: means for conducting heat from the heat –generating component to at least one panel of the housing; and means for dissipating heat the conducted heat, wherein the means for dissipating heat comprises at least one panel of the display projector. Wu et al teach furthermore: said

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cooling system further comprises means for supporting the heat –generating component on two panels of the display projector, said means is also for conducting heat.

#### Allowable Subject Matter

- 7. Claims 2-3, 6, 10-13, 16, 19-20, 22-23, 25-26, 28-29, 33, 35-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The cooling system according to claim 1, wherein the means for dissipating heat compromises a panel containing a working fluid having relatively low boiling point temperature (claims 2, 4, 19, 22, 23); The cooling system according to claim 1, wherein the means for dissipating heat compromises a chamber housing a working fluid (claims 3, 20); The cooling system according to claim 9, wherein the heat generating device comprises a projecting device having a lamp reflector, and wherein the one or more heat conducting members are thermally connected to the lamp reflector (claims 10, 12, 13, 16, 25, 28, 29, 35-39); The cooling system according to claim 9, wherein the heat generating device comprises a projecting device having a lamp reflector, said cooling system further comprising a cover device for thermal connection to the lamp reflector (claims 11, 26).
- 9. The prior art made of record provided in the PTO Form 892 and not relied upon is considered pertinent to applicant's disclosure.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Datskovskiy whose telephone number is (571) 272-2040. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Michael V Datskovskiy Primary Examiner Art Unit 2835

11/07/2005